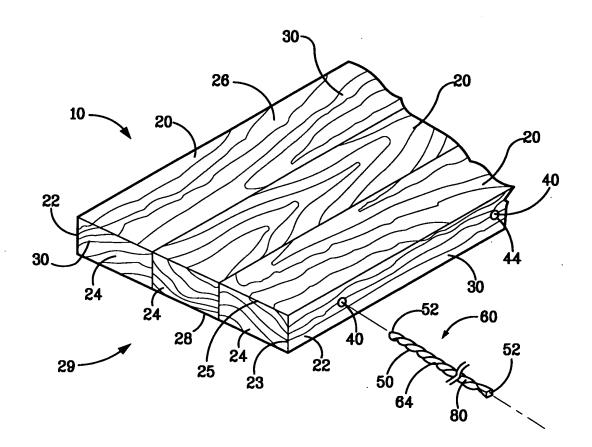
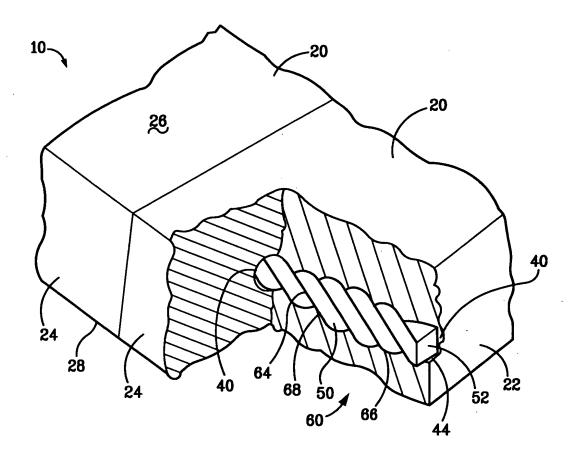
FIG. 1

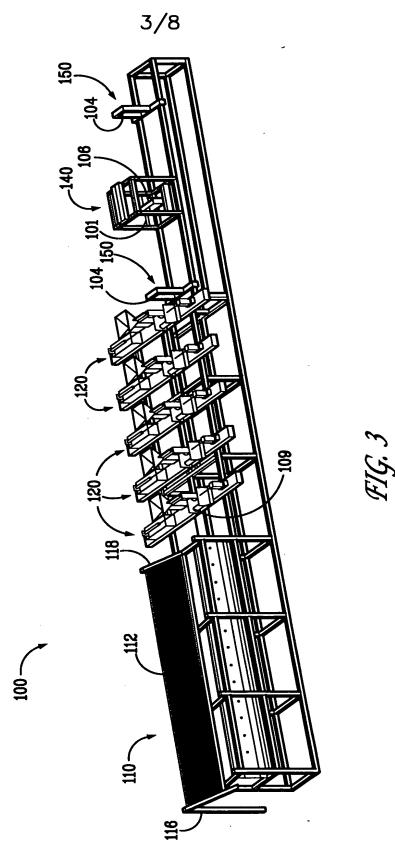


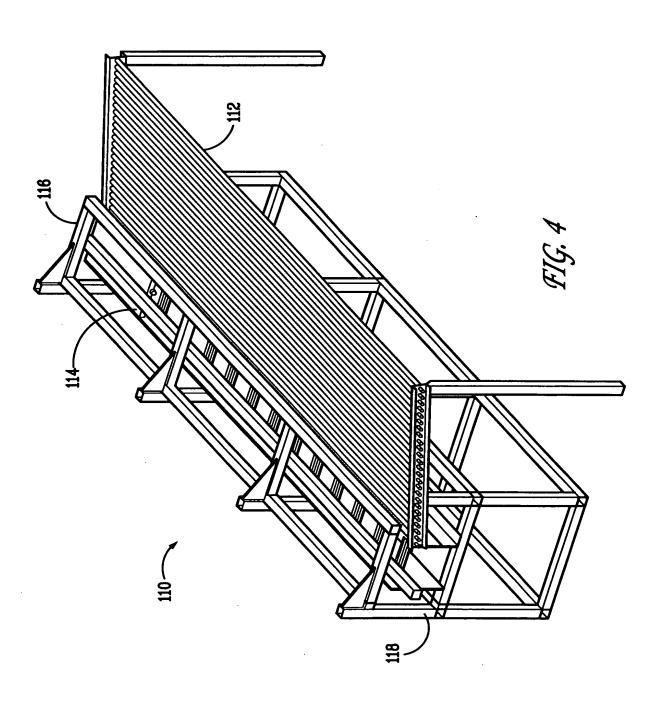
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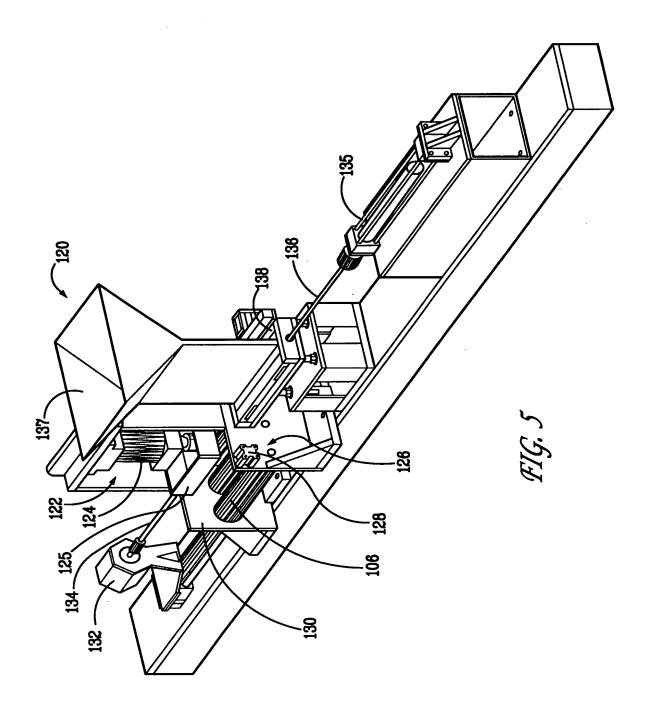


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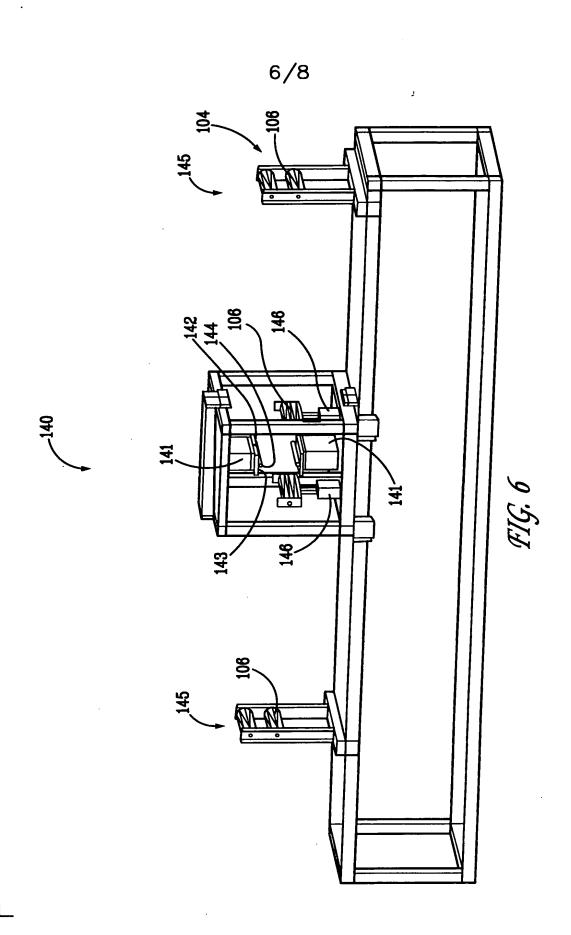


FIG. 1

| | | | | | | | | | | | | , - | |
|--------|--|----------|--------------------------------|---------------------------------|-------------------------|-------|-----------------------------|---------------------------------|-------------------------|-----------------------------|-----------------|-------|---------------------------------|
| Test 3 | Max Load, lbs/Deflection/Failure | 16.99 A/ | 1927 108/0.003 /simple tension | 1648 lbs/7.760"/full deflection | reached with no failure | -: | 105/ 0.044 / simple tension | 1774 lbs/7.438"/full deflection | reached with no failure | 2147 lbs/6.785"/cross-grain | tension failure | -: | 1008 10s/4.c.13 /simple tension |
| Test 2 | Marked on Deflection © Deflection 1 Board Board 500 lbs,in © 500 lbs,in | 2.282 | 2.034 | 2.308 | 2.271 | 2.124 | 2.051 | 2.174 | 2.112 | N/A | N/A | N/A | N/A |
| Test 1 | Deflection © 500 lbs,in | 1.975 | 2.002 | 2.378 | 2.508 | 2.157 | 1.996 | 2.002 | 2.005 | 1.594 | 1.810 | 1.914 | 2.081 |
| Date | Marked on Board | 12-94 | 12-94 | 12-94 | 12-94 | 12-94 | 12-94 | 11–94 | 11–94 | 11-94 | 11–94 | 11–94 | 11–94 |
| Side | | Ą | В | A | В | A | В | A | В | ¥ | В | ¥ | В |
| HEE | S/N | 1 | 1 | 2 | 2 | က | က | 4 | 4 | 2 | 2 | 9 | 9 |

FIG. 8

| Comparison Results | | | | | |
|-------------------------|-----------------------|-----------------------|------------------------|--|--|
| | Pinned | Solid | Laminated | | |
| Modulus of Elasticity | 2.0 x 10 ⁶ | 1.8 x 10 ⁶ | 2.15 x 10 ⁶ | | |
| Flexural Stress | 2,600 psi | 2,200 psi | 2,900 psi | | |
| Horizontal Sheer Stress | 120 psi | 90 psi | 145 psi | | |

FIG. 9

| Failure Results | | | | | | |
|-----------------|-------------------------------|-------------------------------------|--|--|--|--|
| Type of board | Average Failure Load (lbs) | Comments | | | | |
| Pinned | 2,700 psi | One member out of three fails first | | | | |
| Solid | 2,200 psi | Whole Unit Fails | | | | |
| Laminated | 2,400 psi | Whole Unit Fails | | | | |

FIG. 10

| Deflection Results | | | | | | |
|---------------------------|-------------------------------|--------------------------------|--|--|--|--|
| Type of board (7 ft span) | Deflection @ 50 psf Load (in) | OSHA Allowable Deflection (in) | | | | |
| Pinned | 0.73 | 1.4 | | | | |
| Solid | 0.81 | 1.4 | | | | |
| Laminated | 0.73 | 1.4 | | | | |